

What Is Claimed Is:

1. A torsional vibration damping apparatus, especially a web damper, to be mounted on a crankshaft (4) of a piston engine, especially an internal combustion engine, wherein the torsional vibration damping apparatus (1) comprises multiple sheet metal parts (8, 41, 56).
2. The torsional vibration damping apparatus as described in Claim 1, wherein the torsional vibration damping apparatus (1) comprises a housing (8, 41), that is fastened to the crankshaft (4) and to which at least one rotary mass (56) is coupled with spring elements (65) being disposed between said housing and said mass.
3. The torsional vibration damping apparatus as described in Claim 2, wherein the housing (8, 41) comprises an essentially pan-shaped pre-formed sheet metal part having a base (8) that has an essentially rectangular opening (16) that is open on one side.
4. The torsional vibration damping apparatus as described in Claim 3, wherein a shoulder (18) essentially in the shape of a circular segment is formed on the housing base (8) in the area of the opening (16).
5. The torsional vibration damping apparatus as described in Claims 3 or 4, wherein at least one through hole (19, 20) is provided in the circular-segment-shaped shoulder (18).
6. The torsional vibration damping apparatus as described in one of Claims 1 to 5, wherein the base (8) of the housing has a rim (9) that is bent 90°.
7. The torsional vibration damping apparatus as described in one of Claims 3 to 6, wherein the especially pan-shaped housing can be enclosed by a cover (41), which is formed by a sheet metal part.

8. The torsional vibration damping apparatus as described in Claim 7, wherein the housing base (8) and the housing cover (41) are fastened to each other by spacer bolts (50 to 54).
9. The torsional vibration damping apparatus as described in one of Claims 2 to 8, wherein arranged in the housing (8, 41) is at least one flywheel mass (58) that is formed by at least one sheet metal part.
10. The torsional vibration damping apparatus as described in Claim 9, wherein at least one sliding element (75) is mounted on the flywheel mass (56) radially to the outside.
11. The torsional vibration damping apparatus as described in one of Claims 9 or 10, wherein at least one oblong opening (30, 43, 68) is made in each of the housing base (8), the flywheel mass (56) and the housing cover (41), the openings in the housing base, the flywheel mass and the housing cover being tangentially arranged in such a manner that they are in alignment when the torsional vibration damping apparatus (1) is in the assembled state.
12. The torsional vibration damping apparatus as described in one of Claims 2 to 11, wherein through holes (22, 23) are provided in the housing base (8) for holding weighting rivets (55).
13. The torsional vibration damping apparatus as described in any of the preceding claims, wherein the torsional vibration damping apparatus (1) is configured essentially in the shape of a horseshoe.
14. A crankshaft for a piston engine, especially an internal combustion engine, having multiple webs, wherein a torsional vibration damping apparatus (1) as described in any of the preceding claims is integrated in at least one web of the crankshaft (4).

15. A piston engine, especially an internal combustion engine, having a crankshaft (4) as described in Claim 14.